SOURCE®

GENERATION K

PRODUCT USER GUIDE

Intended for use by owner or operator of a SOURCE® Hydropanel array for use with Generation K Residential/Small Site product versions.

SOURCE

Thank you for purchasing a SOURCE system.

As a valued SOURCE® customer, it's important that you have every resource to properly operate and maintain your SOURCE® Hydropanel system.

WITHIN THIS PRODUCT USER GUIDE, YOU CAN FIND:

- How the SOURCE® Hydropanel system works and makes your water
- How to dispense your water
- How the SOURCE® Hydropanel system operates in various weather conditions
- Overview of SOURCE® Hydropanel operating components
- Dispenser maintenance and cleaning
- Hydropanel maintenance, including regular service
- Reservoir maintenance, including regular service
- Warranty information
- How to reach SOURCE® if you ever need technical support
- Frequently Asked Questions/Troubleshooting Guide

SOURCE®

Suppliers Declaration of Conformity

FCC Compliance Statement

Model # HF181

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

SOURCE® Global, PBC declares under their sole responsibility that their SOURCE® Hydropanels, listed as the following model:

Generation K

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ⓘ SOURCE® monitors installations for performance and preventative maintenance.

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1 GETTING STARTED

1.1 How the SOURCE® Hydropanel System Works

SOURCE® Hydropanels are a drinking water system which includes one or more hydropanel systems, a solar powered technology needing only sunlight and air to make drinking water. Independent of infrastructure, SOURCE® Hydropanel is the only technology is uniquely capable of making high-quality, delicious drinking water without plugging into an additional electric or water supply.

SOURCE® Hydropanel systems extract pure water vapor from the air to sustainably produce high-quality, delicious drinking water. As your water is produced, it flows from your system into your water reservoir where it is mineralized for health and taste, safely stored in the pressurized storage tank for quality and availability. Your pressurized storage tank is connected directly to a dispenser to access the water.

1. Using solar PV, SOURCE® Hydropanel technology takes in ambient air via fans and collects water vapor from that air onto a hygroscopic material.
2. With heat from the sun, the system converts the collected water vapor into liquid water.
3. The water is sanitized in the system's onboard reservoirs before being pumped to a pressurized storage tank.
4. The pressurized storage tank is plumbed to a dispenser where the water is mineralized as it is dispensed.
5. The water in the pressurized storage tank is accessed using the dispenser.

1.2 Making Your Water

After installation, commissioning, and as soon as the sun shines on the system, it will automatically begin making water. The system will continue to deliver water to the pressurized storage tank and dispenser.

At installation, the service technician will add bottled drinking water through the filter system. This water added is part of the installation and commissioning to ensure an adequate amount of water flows through the polishing filter and dispenser. After install is complete, your system will be making water and start to fill your pressurized storage tank. Please reach out to our team at **support@source.co** at any time.

1.3 Dispensing Your Water

To dispense your SOURCE® Hydropanel water, after your notification, turn on the faucet by moving the lever or pressing the button on the dispenser or tap. The pressure reaching your dispenser may vary depending on the size and water level of your under-sink storage tank. During installation, a t-valve may have been installed under your sink, allowing you to switch between municipal and SOURCE® Hydropanel water. If your hydropanels are wall mounted or freestanding, a t-valve may not have been installed.

1.4 Switching Water with T-Valve

To switch to SOURCE® Hydropanel water with the T-valve

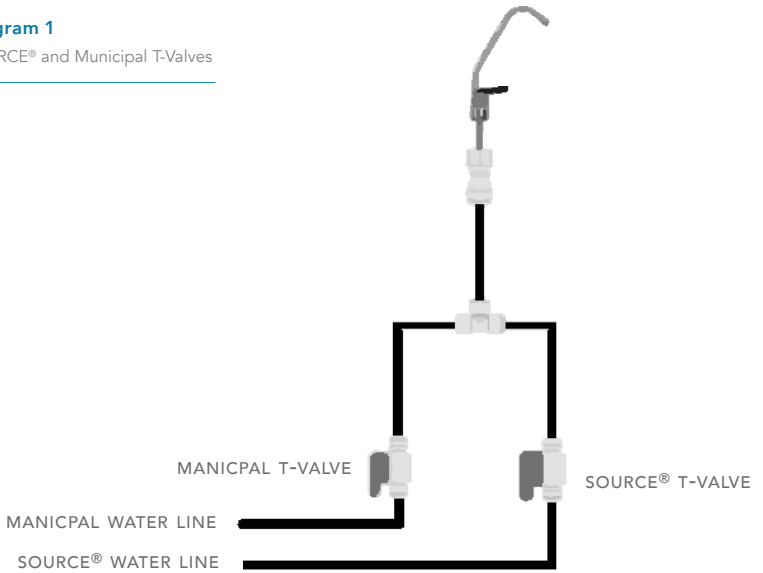
1. Rotate the municipal t-valve perpendicular to the municipal water line's flow to disable the flow of municipal water to your dispenser. Perpendicular is the "off" position.

2. Rotate the SOURCE® T-valve parallel to the SOURCE® water line's flow to allow the SOURCE® water to flow to your dispenser. Parallel is the "on" position.

3. To switch back to municipal water, turn "off" the SOURCE® water line and turn "on" the municipal water line.

4. It is important to not have both lines open at the same time.

Diagram 1
SOURCE® and Municipal T-Valves



1.5 SOURCE® Hydropanel Water Quality

SOURCE® is committed to achieving the highest standards in drinking water. We test our water using an expansive list of US and internationally regulated contaminants. Learn more about water quality at **www.source.co/source-mineralized-water/**

1.6 Weather Conditions

Relative humidity and sunlight are the two main factors in hydropanel water production. As relative humidity increases paired with a sunny day, water production increases. Shading of the hydropanels or cloudy weather can reduce the rate of water production until the sun is able to shine directly on the hydropanels again.

When the ambient temperature approaches freezing, your SOURCE® Hydropanel system enters hibernation mode and are not able to produce and deliver water to the pressurized storage tank during that time.

Water production and delivery resume when the temperature is safe for the system to operate fully. Depending on your local weather and the depth of the freeze, this may be hours, days, or weeks at a time. We strongly recommend installing the pressurized water storage tank in a temperature controlled area. If this is not possible, the storage tank should be drained ahead of freezing temperatures to protect your plumbing and filters.

1. Open the faucet or dispenser to depressurize the dispense line and cartridges.

2. Leave the dispenser open until the tank is drained.

3. Close the faucet or dispenser.

2 GENERAL REFERENCE

2.1 System Operation

Air draws into the hydropanel system and moisture in the air transfers to an adsorbent media. Air then continuously heats in a closed-loop system, enabling the condensation of water. The output is pumped to the on-board reservoir as pure water which is then mineralized upon dispensing to become drinking water and ozonated to be kept safe for drinking.

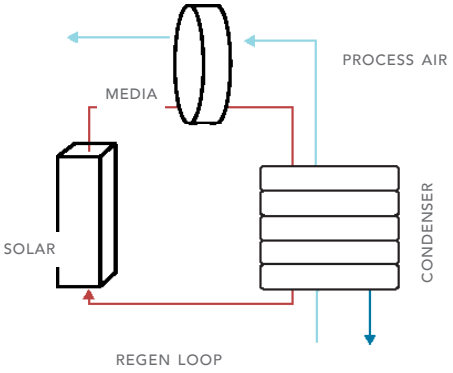


Diagram 2
SOURCE® Hydropanel System Operating Principles

2.2 SOURCE® Hydropanel Components

The system's solar photovoltaic (PV) panel provides power to drive the water-making process elements that occur when the sun is and is not shining, utilizing an onboard battery as needed. The panels are installed in a specific location and angle to optimize exposure to sunlight to maximize power production. The hydropanel systems include air filters, fans, motors, condensers, electronics, and other hardware needed to turn air into water.

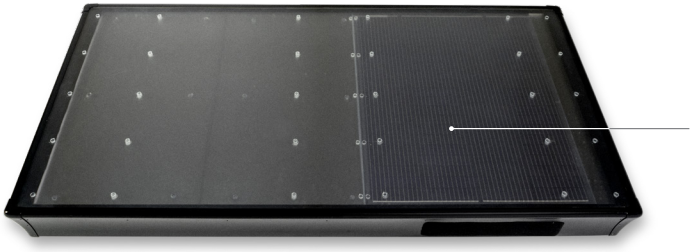


Diagram 3

High-Level Assembly Components
(Excludes mounting frame)

Diagram 4

Side View of the Hydropanel system
(Excludes mounting frame)

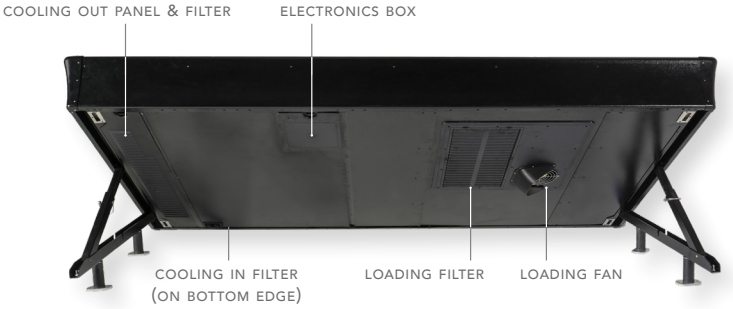


Diagram 5

Back view of the Hydropanel system
(Excludes mounting frame)

2.3 Pressurized Storage Tank

The pressurized storage tank acts as a storage vessel for the water that the SOURCE® Hydropanel system produces. Ideally the storage tank should be installed indoors in a temperature controlled space, typically under a sink with an exterior wall (unless there is plumbing access to an island sink). The operating temperature ranges from 5F to 100F. If the temperature reaches freezing conditions, it is still recommended to flush the pressurized storage tank. Refer to section 3.2.f. for instructions. The dispense rate from the pressurized storage tank is 2 to 4 liters per minute depending on the tank pressure, amount of water stored, and the dispenser type that is plumbed to the system.

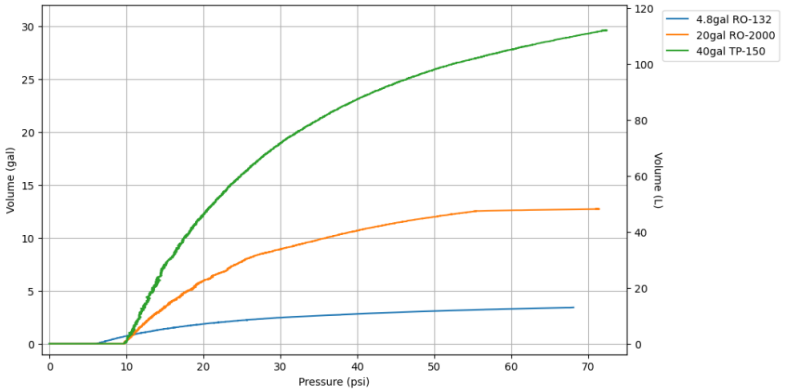


Diagram 6
Storage Volume vs
Pressure of RO Tanks

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3 BASIC MAINTENANCE

3.1 Dispenser Maintenance

a. Keeping Your Dispenser Clean

The SOURCE® Hydropanel system makes and maintains high quality water throughout its full system, all the way to the dispenser or tap. It is important to maintain your tap or dispenser by keeping the spout clean. We recommend cleaning your spout every month using a household disinfectant that is safe for kitchen use or following specific manufacturer recommendations.

b. Replacing Mineral Cartridges

The mineral cartridge can provide minerals for approximately 1,500 gallons, or 5,680 liters. If you would like to replace the cartridges yourself, email our Network Operations Center team at support@source.co for more information related to timing of replacement or contact your local distributor to have service performed.

Diagram 7
Mineral Cartridge

1. Prior to installation, please note the direction of water flow through the cartridge. Be sure the arrow points towards the faucet in the direction the water is dispensed.

2. Shut the water off before changing the cartridge by turning the valve to the closed position.

3. Prepare the new filter by installing the fittings with the adjustable wrench until snug by hand. Do not over tighten.
4. Push each tube into the fitting/connector until fully seated.
5. Once everything is properly connected, turn on water slowly and check for leaks
6. Turn water on fully and dispense 5-gallons of water through filter prior to use.
7. Your SOURCE® water system is ready to use.

c. Flushing the System in Freezing Conditions or After a Period of Non-Use

If the temperature reaches freezing conditions or water has not been dispensed for a period longer than 30 days, the pressurized storage tank will need to be flushed and drained. This ensures the best quality water for your next use.

1. Open the faucet or dispenser to depressurize the dispense line and cartridges.
2. Leave the dispenser open until the tank is drained.
3. Close the faucet or dispenser.

Other specifications of the pressurized storage tank include:

- Operating temperature range: 5F to 100F
- Should not be installed in direct sunlight. Ideally, it is installed indoors in a temperature controlled space, under a sink with an exterior wall (unless there is plumbing access to another location).

- Dispense rate: 2-4LPM (dependent on amount of water stored)
- Maximum pressure: 60psi

3.2 Hydropanel Maintenance

a. Replacing the Air Filters

SOURCE® hydropanel system's have air filters to remove large particulates and debris so the system can continue to run efficiently over its life. These paper filters should be replaced annually. If you live in a particularly dusty area, the filters may need to be changed more frequently. To schedule regular service for your system, email **support@source.co** or contact your local distributor.

b. Cleaning the Glass

In order to maximize effectiveness of sunlight with the Hydropanels, it is recommended that you clean the Hydropanel glass as needed based on weather conditions. We recommend inspecting and cleaning the glass after a significant weather event such as a dust or rainstorm. This frequency of inspection and cleaning will vary based on the level of sand, dust, or other particulates in your specific location.

1. Wipe down the hydropanel glass with a cotton cloth (or other non-abrasive cloth) and glass cleaner. Clean water is a suitable alternative if glass cleaner is not available.
2. Repeat until all dirt and streaks are eliminated.
3. The glass can dry naturally in the sun.

4 FAQS (FREQUENTLY ASKED QUESTIONS)

Why is my Hydropanel system not making any water?

It may take a few days for the Hydropanel system to build up enough water for ozonation. Other potential causes could be cloudy weather conditions, the top of the pressurized storage tank valve is closed, or valves are installed backwards.

Why is my Hydropanel system making noise?

It is normal if the noise is lasting a few minutes and occurs 2 times per day. This means that the system is delivering water from the contact tank in the Hydropanel system to the pressurized storage tank.

Why does the Hydropanel system's fans stop every morning and evening?

The system has different modes of operations. Sometimes the fans are running and sometimes they are not.

Why is my water cloudy?

This is air dissolved in the water. This is normal and will dissipate in a few minutes.

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5 WARRANTY

SOURCE® provides a provides a 1-year manufacturer's limited warranty (see terms and conditions) for defects in material and workmanship under normal, intended use. You may purchase an additional warranty year or a Maintenance Plan directly from SOURCE® which includes yearly visits to replace consumables.

6 CUSTOMER SERVICE

SOURCE® Global, PBC monitors all Hydropanel installations for performance and preventative maintenance. If your array location is not reachable by a local cellular network or Wi-Fi connection, the panels will not be able to send status updates to our team. This does not impact the water-creating function of the Hydropanel system, however if you experience any issues with your system, please reach out to us directly.

Any questions, please email us at support@source.co
or call us at +1 (855) 796-9283, ext. 1.

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